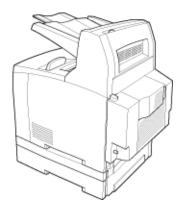


MODEL: DX-B350P

DX-B450P

# LASER PRINTER Installation Manual



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TOC-2 Installation Manual

# Chapter 1: Introduction

This manual is intended to provide guidance for the proper installation of your printer. If you require more information to install your printer, consult the User's Guide located on the CD-ROM. For further help, please contact your dealer or responsible representative.

#### Conventions

The following conventions are used throughout this manual to emphasize certain procedures or information:

**NOTE:** A note is a tip or extra information that may be helpful in installing or using the printer.



**CAUTION**: A caution message provides information that may help you avoid equipment damage, process failure, or inconvenience. Read all caution messages carefully.



**WARNING!** A warning message indicates the possibility of personal injury if a specific procedure is not performed exactly as described in the manual. Pay close attention to these sections and read them fully to prevent possible injury.

#### **General Safety Guidelines**

Before operating the printer, read the following instructions carefully:

- Follow all the operating procedures provided in this manual.
- Follow all the hazard warnings on the printer and in the manual. Failure to do so can cause injury to yourself or damage to the printer.
- Do not perform any operation or action in any way other than provided in this manual. When in doubt, contact your dealer or service company.
- Keep in mind that hazard warnings in this manual or on the printer cannot cover every possible case, as it is impossible to predict and evaluate all circumstances beforehand. Be alert and use your common sense.

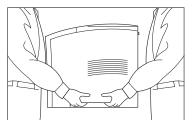
#### **Safety Precautions**

This printer is available in the power specifications 110 V and 230 V. The specifications that apply to your printer depend on your machine configuration. To prevent fire or shock hazards, connect the power plug only to a properly rated power outlet.

#### Introduction

#### Handling the Printer

• The weight of the printer without toner cartridge and paper is about 22 kg/48 lbs. Never attempt to lift the printer alone.



- To lift the printer, have two individuals facing each other from the front and the rear of the printer grasp the recessed areas on each side of the printer. Do not lift the printer by grasping any area other than these recessed areas.
- The machine should be installed near an accessible power outlet for easy connection. For a complete electrical disconnection, pull out the main plug.
- A small amount of ozone is produced within the printer during operation. The emission level is insufficient to cause any health hazard. It is advisable to place the printer in a ventilated area, since the small amount of ozone that is emitted may have an objectionable odor.

#### **Laser Information for North America**



Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Туре	DX-B350P	DX-B450P
Wave length	785nm	785nm
Pulse times	6.7us	8.2us
Output power	0.12mW	0.22mW

This Digital Equipment is rated Class 1 and complies with 21 CFR 1040.10 and 1040.11 of the CDRH standards.

This means that the equipment does not produce hazardous laser radiation. For your safety, observe the precautions below.

- Do not remove the cabinet, operation panel, or any other covers.
- The equipment's exterior covers contain several safety interlock switches. Do not bypass any safety interlock by inserting wedges or other items into switch slots.

1-2 Installation Manual

#### **Printer Orientation**

Throughout this manual, the four sides of the printer are referred to as front, rear, right, and left. The front of the printer is the side near the Operator Panel, and the rear of the printer is opposite the front. The left and right sides of the printer are defined as the sides to the left and right, respectively, of a person who is facing the front of the printer.

#### Warranty

While every effort has been made to make this document as accurate and helpful as possible, SHARP CORPORATION makes no warranty of any kind with regard to its content. All information included herein is subject to change without notice. SHARP is not responsible for any loss or damages, direct or indirect, arising from or related to the use of this operation manual



FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Installation Manual 1-3

#### Introduction

#### **Declaration of Conformity**

#### SHARP Laser Printer, DX-B350P/DX-B450P

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: SHARP ELECTRONICS CORPORATION

Sharp Plaza, Mahwah, New Jersey 07495

TEL: 1-800-BE-SHARP

#### Notice for Users in the USA

BE SURE TO ASK YOUR AUTHORIZED SHARP DEALER ABOUT THE WARRANTY THAT YOUR SELLING DEALER EXTENDS TO YOU. In order to assure you, the end-user, of warranty protection, Sharp extends a limited warranty to each of its authorized dealers and, in turn, requires each of its authorized dealers to extend its own warranty to you on terms that are no less favorable than those given to the dealer by Sharp. You should be aware, however, that Sharp does not itself extend any warranties, either express or implied, directly to you, the end-user, and no one is authorized to make any representations or warranties on behalf of Sharp. Specifically, SHARP DOES NOT EXTEND TO YOU, THE END-USER, ANY EXPRESS WARRANTY OR ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR USE OR FITNESS FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH THE HARDWARE, SOFTWARE OR FIRMWARE EMBODIED IN, OR USED IN CONJUNCTION WITH THIS PRODUCT. Sharp is not responsible for any damages or loss. either direct, incidental or consequential, which you, the end-user, may experience as a result of your purchase or use of the hardware, software or firmware embodied in or used in conjunction with this Product. Your sole remedy, in the event that you encounter any difficulties with this Product, is against the authorized dealer from which you purchased the Product.

DX-B350P Laser Printer DX-B450P Laser Printer

In the event that this authorized dealer does not honor its warranty commitments, please contact the General Manager, Business Products Group, Sharp Electronics Corporation, Sharp Plaza, Mahwah, New Jersey 07495-1163, so that Sharp can try to help assure complete satisfaction of the warranty rights to which you are entitled from the authorized dealer.

1-4 Installation Manual

#### Compliance



Products that have earned the ENERGY STAR® are designed to protect the environment through superior efficiency. DX-B450P model requires the optional DX-DUX2 duplex module to fully qualify for ENERGY STAR®.



The EcoLogo Program guidelines are applied to only the products in Canada. The products that meet the EcoLogo Program guidelines carry the logo shown to the left. The products without the logo may not meet the EcoLogo Program guidelines.

Installation Manual 1-5

#### Introduction

#### **Supplies**

Standard supplies for this product that can be replaced by the user include paper and toner cartridges. Be sure to use only SHARP-specified products for the toner cartridges.

#### **Storage of Supplies**

- **1.** Store the supplies in a location that is:
  - · clean and dry,
  - at a stable temperature,
  - not exposed to direct sunlight.
- 2. Store paper in the wrapper and lying flat.
- **3.** Paper stored in packages standing up or out of the wrapper may curl or become damp, resulting in paper misfeeds.

#### **Storing Toner Cartridges**

Store a new toner cartridge box horizontally. Do not store it standing on end. If stored standing on end, the toner may not distribute well even after shaking the cartridge vigorously, and will remain inside the cartridge without flowing out.

#### Supply of Spare Parts and Consumables

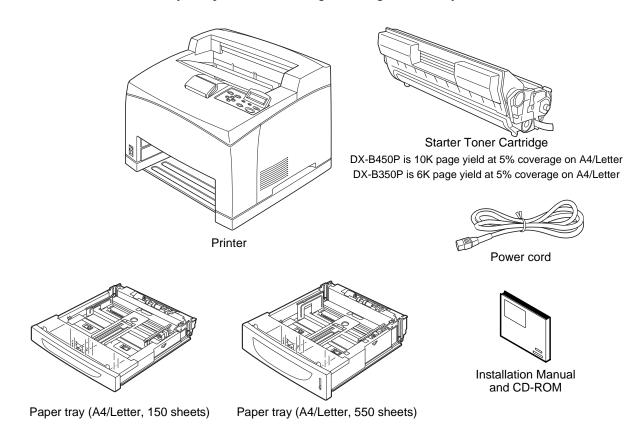
The supply of spare parts for repair of the machine is guaranteed for at least 7 years following the termination of production. Spare parts are those parts of the machine which may break down within the scope of the ordinary use of the product, whereas those parts which normally exceed the life of the product are not to be considered as spare parts. Consumables too, are available for 7 years following the termination of production.

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# Chapter 2: Basic Installation

#### **Checking Your Package**

Before installing the printer, check that all the items are contained in the package. Should any components be missing or damaged, contact your dealer.



#### **Preparing a Location for the Printer**

#### **Installation Precautions**

Before unpacking your laser printer, it is recommended that you read the following to assist locating a suitable spot for your new laser printer. To make optimum use of the printer, observe the following precautions when locating the printer.



The installation surface must be stable and very sturdy to support the considerable weight of the printer. If the printer falls over, there is a severe risk of injuries.

- Place the printer on a horizontal, sturdy and stable surface. The printer may cause injury if it falls over.
- Do not subject the printer to direct sunlight or a malfunction may result.

#### **Basic Installation**

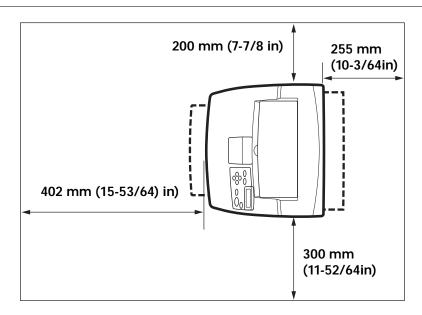
- Do not place the printer in a location with poor ventilation, or high level of dust, otherwise a fire hazard or electric shock may result.
- Do not place the printer near heaters or similar objects, otherwise a fire hazard may result.
- Never block the ventilation openings of the printer, otherwise the internal temperature will build up and cause a fire hazard.
- Do not place the printer near alcohol, benzine, or other volatile and flammable materials, or a fire hazard may result.

#### **Space Requirements**

A certain amount of space is required for proper operation of the printer and also for performing printer maintenance and replacing consumables. Use the following figures to plan for appropriate clearances when determining a location for your printer.

NOTE:

Be sure to leave ample space between the ventilation openings on the printer and the nearest wall or other surface, otherwise overheating may occur leading to a fire hazard. For easy operation, maintenance and replacing of consumables, you should also leave the clearances shown below around the printer. Installation of the printer should be carried out by qualified service personnel.

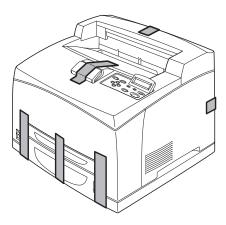


2-2 Installation Manual

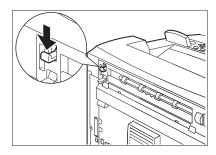
#### **Installation Procedure**

#### Removing the Tape

When the printer is first taken out of the packaging box, the covers of the printer are taped as shown in the diagram. Remove the tapes. Remove the fuser locking device by pushing the tabs as shown on the instructions at the rear of the printer.



**NOTE:** The small lever to back of the unit is used for an optional part that is not available on this printer. The lever should remain in the down position.



#### Installing the Toner Cartridge

When installing the Toner Cartridge, take note of the following points below:

- Never throw a Toner Cartridge into an open flame. It can cause an explosion and you can get burned.
- Keep the toner cartridge in a location out of reach of children.
- Do not forcibly open the toner cartridge.
- Do not subject it to direct sunlight or strong light.
- When installing the Toner cartridge, select a location not subject to strong light and try to finish the installation within 5 minutes.
- Do not touch the surface of the photosensitive drum.
- Do not stand or place the Toner Cartridge upside down. The drum might get damaged.

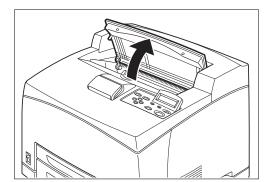
Installation Manual 2-3

#### **Basic Installation**

- A drum shutter protects the photosensitive drum from light. Do not open the drum shutter.
- Toner is not harmful to the human body, but if some toner has come into contact with your skin, you can wash it off with cold water and soap. If toner gets on your clothing, you should try to immediately remove it with a vacuum cleaner which has a fine filter.

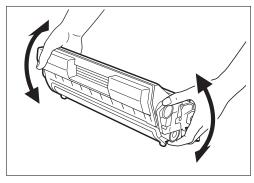
**NOTE:** 

Avoid inhaling possibly escaped toner dust.

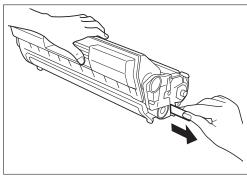


**1.** Open the top cover.

Do not touch any parts inside the printer.



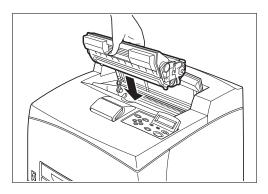
**2.** Take the Toner Cartridge out of the box and shake it 7 to 8 times as shown in the diagram.



**3.** Place the Toner Cartridge on a flat surface and pull the seal out horizontally.

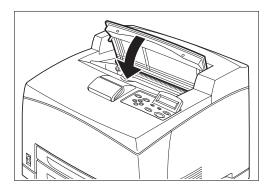
**NOTE:** When pulling out the seal, pull it out horizontally. The tape might break if it is pulled out diagonally. After the seal has been pulled out, do not shake or bump the Toner Cartridge.

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**4.** Hold the Toner Cartridge by the grip and insert it into the slot inside the printer.

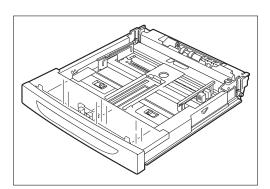
**NOTE:** Do not touch any parts inside the printer. Ensure that the Toner Cartridge is firmly



**5.** Close the top cover securely.

#### **Loading Paper**

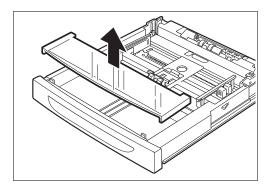
See the User's Guide on CD-ROM for details on the type and size of paper that can be loaded in the paper tray.



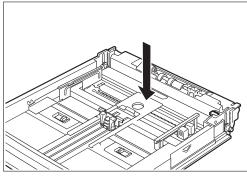
**1.** Place the paper tray on a flat surface.

Installation Manual 2-5

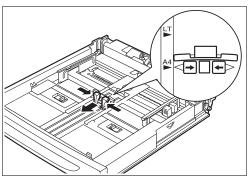
#### **Basic Installation**



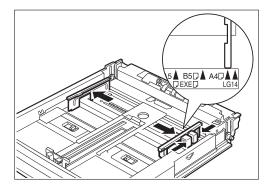
**2.** Remove the lid of the tray.



**3.** If the base plate of the paper tray is raised, push it down.

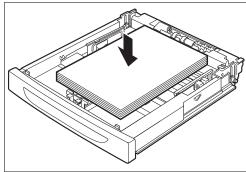


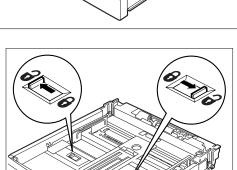
**4.** Squeeze the length guide and slide it to the desired paper size.



**5.** Squeeze the right width guide and slide it to the desired paper size.

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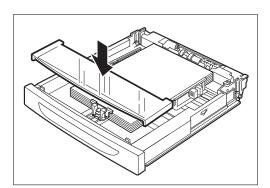


6. Fan the paper and then load the paper with the side to be printed facing up and with all 4 corners aligned. Make sure that the right width guide is correctly aligned with the paper size. Do not place paper over the right width guide.

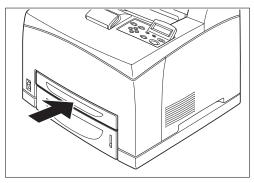
If the paper is larger than A4 or letter, go to step 7. If not, skip to step 8.

7. Slide the right and left lock tabs in the paper tray outwards to unlock them. Hold the grip of the paper tray and pull its extendable part to the front until it touches the desired paper size.

**NOTE:** Do not load paper exceeding the maximum fill line or the maximum capacity allowed. Align the right width guide with the paper width correctly. If the right width guide is not in place, the paper will not be properly fed and may cause a paper jam.



**8.** Replace the lid of the paper tray.



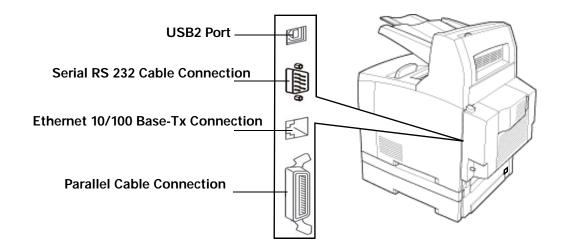
**9.** Firmly seat the tray in the printer.

Installation Manual 2-7

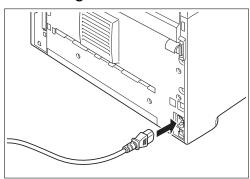
#### **Basic Installation**

#### Connecting an Interface

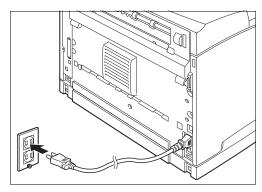
The following four interfaces are available to directly connect the printer or to connect to a network.



#### **Connecting the Power Cord**



**1.** Connect the power cord to the power cord connector at the back of the printer.



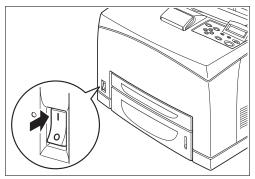
2. Make sure that the power switch has been firmly pushed to the <O> position and then insert the other end of the power cord to a correctly rated power outlet.



Connect the printer exclusively to an outlet with a suitable voltage rating and current rating for your printer's model.

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#### **Turning the Printer On**



**1.** Press the power switch to the <I> position to turn the power on.

**NOTE:** The printer motors run for 2 or 3 minutes when you first turn the power on.

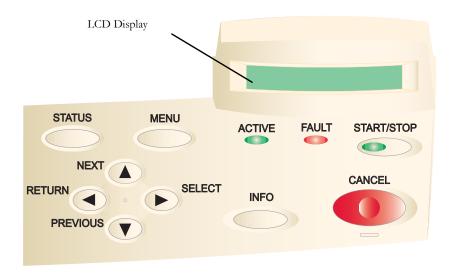
The printer displays a series of messages and then displays READY when it is available for use.

**NOTE:** While turned on, the printer will go into the standby state if it remains idle for a period of time.

When you have finished using the printer for the day or you do not intend to use it for a long period of time, switch off the power.

#### **Using the Operator Panel**

To configure the printer, press the **MENU** button and use the **NEXT**, **RETURN** and **PREVIOUS** buttons to navigate through the Operator Panel options and the **SELECT** button to choose the option. You can use the **CANCEL** button to exit any current selection.



Installation Manual 2-9

#### **Basic Installation**

#### Selecting a Display Language

The default language for all LCD display messages, the Configuration Summary, and the Test Page is English. You can change to one of several languages. Navigate through the System Menu to select the desired language:

NOTE:

The language that you select will be reflected on all LCD display messages, and also the content of the Configuration Summary.

#### **Printing a Configuration Summary**

Your printer can print a Configuration Summary that lists the currently selected status of menu options, media selections in trays, options installed and other relevant information about your printer. To print a Configuration Summary, press the INFO button on the Operator Panel.

#### **Setting an IP Address Manually**

This action is only needed if you must set an IP address manually. If you receive an IP address from a DHCP source, then you do not need this action. DHCP is On by default. You must turn DHCP Off by navigating through the Interface and Network Setup Menus in the Operator Panel.

#### Using the Embedded Web Site

The printer has an embedded web site that can be used to set many configuration items and observe the status of the printer. If the printer is connected to a network, point your browser to the printer's IP address to use this to configure the printer. Consult the User's Guide located on the CD-ROM for further help.

2-10 Installation Manual

#### **Driver Installation**

- **1.** Load the CD into the drive.
- 2. After the installer program auto loads, select **I Accept** to the License Agreement on the opening screen.
- **3.** Follow the instructions on the screen

**NOTE:** The installer and driver will automatically use the language currently configured by Microsoft on the PC in use. If the driver or installer does not support the language in use, it will use English.

**NOTE:** For plug and play using USB or parallel interfaces, it is recommended to follow the wizard and just install the driver. Then power the printer on so that the system can find the printer and install the correct driver.

NOTE: The installer will automatically install a PCL6 driver. If PCL5 or PostScript 3 is desired, use the Microsoft "Add Printer" Wizard in the Printers and Faxes folder. Use the "Have Disk" option and point the Add Printer Wizard to the appropriate folder on the CD.

#### **Configuration of Driver Options**

The printer driver is installed with a base printer configuration. This means optional features such as a duplexer will be unavailable until the option is added to the driver's configuration. The driver configuration can be performed automatically or manually. Driver options are added as follows:

1. From the Windows Control Panel, select **Printer and Faxes**.

This control is named simply Printers on Windows Vista.

**2.** Find your printer in the list and right-click.

A pop-up menu appears

3. Select Properties.

A Properties dialog appears.

**4.** Click on the Configuration tab.

The Properties dialog changes to show a list of the available options. Each item will either show None or Installed, except for memory which shows the amount of memory installed. For Auto Configuration, go to step 5. For Manual configuration, go to step 6.

**5.** Auto Configuration - Click the Auto Configuration button.

The driver will automatically configure the available options. Go to step 7.

**6.** Manual Configuration - Select the option in the list that you wish to change.

Below the list is a drop down list that allows you to add or remove an option by selecting Installed or None.

If the option is memory, select the amount of memory installed.

**7.** Press **OK** or **Apply**.

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#### **Driver Installation**

**Basic Installation** 

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# Chapter 3: Specifications

### **General Specification**

Specification	DX-B350P	DX-B450P	
Printing speed	Up to 35 ppm Letter Up to 34 ppm A4	Up to 45 ppm Letter Up to 43 ppm A4	
Processor	MIPS RM7035 533MHz		
Memory	128 MB expandable to	640 MB, User Flash 12 MB	
Warm-up time	Maximum of 17 seconds fr	rom power on at 71.6 F (22° C)	
First Page Output Time	Approximately 9 seconds Exact speed varies depending on system configuration, software programs, and document complexity.	Approximately 8 seconds Exact speed varies depending on system configuration, software programs, and document complexity.	
Resolution	1200 dpi	and 600 dpi	
Weight	46.3 lbs (21 kg) unpacked not including Toner Cartridge	47.4 lbs (21.5 kg) unpacked not including Toner Cartridge	
Dimensions	16-39/64 in (w) x 15-59/64 (h) x 18-21/64 (d) (421.8 mm (w) x 404.3(h) x 465.4 (d))		
Media			
Sizes	Letter (8.5 x 11in), Legal (8.5 x 14in), Legal13 (8.5 x 13in), Executive (7.25 x 10.5in), Invoice (5.5 x 8.5in), COM9 (3.875 x 8.875in), COM10 (4.125 x 9.5in), Monarch (3.875 x 7.5in), A4 (210 x 297mm), A5 (148 x 210mm), A6 (105 x 148mm), B5 (182 x 257mm), C5 (162 x 229mm), DL (110 x 220mm), Custom - W: 76.2 mm (3.0 in) - 215.9 mm (8.5 in) and L: 127.0 mm (5.0 in) - 355.6 mm (14.0 in)  Paper that is smaller than W: 98.4 mm (3.9 in) x L: 148.0 mm (5.8in) must be placed in Tray 1.  Paper that is smaller than W: 88.9 mm (3.5 in) x L: 139.7 mm (5.5in) cannot be duplexed or output to the Offset Catch tray.		
Paper type	Plain (64-105 gsm), Transparency, Pre-Punched, Letter Head, Color, Pre-Printed, Bond, Labels, Cardstock, Postcard, Envelope, Thick 1 (106-159 gsm), Thick 2 (160-216 gsm)	Plain (68-105 gsm), Transparency, Pre-Punched, Letter Head, Color, Pre-Printed, Bond, Labels, Cardstock, Postcard, Envelope, Thick 1 (106-159 gsm), Thick 2 (160-216 gsm), Thick 3, Thin (64-67 gsm) For rough or uneven media such as envelope, choose Thick 3. When using Thick 3, duplex is not available.	
Standard Input	Paper tray A4/Letter: 150 sheets Paper tray A4/Letter: 550 sheets		
Standard Output	500 sheets		
Options	·		
Memory Options	Memory: Standard System Memory: 128 MB Optional Memory: Expansion Memory: 256 MB, 512 MB *** Hard Disk: 40GB or more, 2.5 inch IDE *** Compact Flash: Socket Standard, 1 GB, 2 GB, 4 GB ***  *** Please contact your local dealer or authorized service representative for additional details.		

#### **General Specification**

#### Specifications

Specification	DX-B350P	DX-B450P	
Tray Module (Trays 3 and 4) 550 sheets	DX-CSX1	DX-CSX2	
Offset Catch Tray 500 sheets	DX-TEX1		
Duplex Module	DX-DUX1	DX-DUX2	
Supplies			
Orderable Toner Cartridge	DX-B35DTH 18K per ISO standard Declared yield value in accordance with ISO/IEC 19752	DX-B45DTH 21K per ISO standard Declared yield value in accordance with ISO IEC 19752	
Starter Toner Cartridge	6K @ 5% coverage A4/Letter	10K @ 5% coverage A4/Letter	
Connectivity			
Interfaces	Hi-speed USB 2.0 port, IEEE 1284 parallel po	ort (DB25), Ethernet 10/100BaseT, Serial RS-232	
Languages and Fonts	PCL5c, PCL6; 80 HP compatible (99 scalable, 1 fixed fonts), 8 barcodes Adobe PostScript 3; 136 standard Adobe scalable fonts Adobe Direct PDF 1.3		
Drivers and OS support	PCL5e, PCL6, PostScript Vista 32/64, XP 32/64, Win 2K, Server 2003-32/64, NT 4, Win 98 MacOS 10.2 - 10.5 (PPDs)		
Protocols	TCP/IPv4, UDP, BOOTP, DHCP, ARP, ICMP, DNS, WINS, HTTP, LPR, HTTP, Apple EtherTalk, IPv6, ICMPv6, Bonjour, Netware V5, V6, POP3, SMTP		
Operating Environment			
Operating Temperature	41 to 95° F (5 to 35° C)		
Relative Humidity	15 to 85%, non-condensing Humidity should be 70% or below at 95° F and temperature should be 90° F or below at 85% humidity.		
Acoustics			
Bystander Sound Pressure Printing Standby	53.6 dB(A) 27.0 dB(A) Base printer measured in accordance with ISO 7779	56.1 dB(A) 28.0 dB(A) Base printer measured in accordance with ISO 7779	
Sound power level	Sound power level L <sub>WAd</sub> : 67.6 dB(A) Sound power level L <sub>WAd</sub> : 71.5 dB(A)		
Power			
Power Consumption in Power Save Mode	110 V Model = 9 W 230 V Model = 13 W	110 V Model = 11 W 230 V Model = 15 W	
Power Consumption during printing (Average)	110 V Model = 985 W 230 V Model = 1210 W 110 V Model = 985 W 230 V Model = 1270 W		
Rating	110 V Model =110-120 V, 9.8A 230 V Model =220-240V,4.9A	110 V Model =110-120 V, 11A 230 V Model =220-240V,5.5A	

3-2 Installation Manual

#### **Specifications**

Specification	DX-B350P	DX-B450P		
Compliance	Compliance			
ENERGY STAR® Qualified	Products that have earned the ENERGY STAR® are designed to protect the environment through superior efficiency.  DX-B450P model requires the optional DX-DUX2 duplex module to fully qualify for ENERGY STAR®.			
EcoLogo (Canada)	The EcoLogo Program guidelines are applied to only the products in Canada. The products that meet the EcoLogo Program guidelines carry the logo. The products without the logo may not meet the EcoLogo Program guidelines.	Not applicable		

**NOTE:** Office equipment with  $L_{WAd} > 63 \text{ dB(A)}$  is not suitable for operation in rooms where predominantly intellectual work is done. Due to their noise emissions, these devices should be set up in separate rooms



Connect the printer exclusively to an outlet with a suitable voltage rating and current rating for your printer's model.

Installation Manual 3-3

#### **General Specification**

Specifications

3-4 Installation Manual



#### SHARP ELECTRONICS CORPORATION

1 Sharp Plaza, Mahwah, New Jersey 07495-1163.

www.sharpusa.com

#### SHARP ELECTRONICS OF CANADA LTD.

335 Britannia Road East, Mississauga, Ontario, L4Z 1W9

### SHARP CORPORATION

This manual has been printed using a vegetable-based soy oil ink to help protect the environment.